Abstract of Quality Assurance plan (ROAD)

Name of Work :	Improvements to Roads, Drains and Construction of culverts in Sommanna Garden and surrounding areas in Ward NO.11, Byatarayanapura.				
Estimate Cost :	60.00 Lakhs	Tender Agreement no & Date:		Contractor:	Sri. SAMBASHIVA, No.04, 3rd Main road Chamundeshwari layout, Doddabommasandra, Vidyaranyapura, Bengaluru -560097.
As Per tender/ Date of commencement of work :	28-03-23	As Per tender /Date of completion of work:	26-06-23		

Sl No	Materials required for finishined item of work	Unit	Quantity of Materials	Name of Test to be Conducted	No of Tests Required	No of test by		No of test by Competent Authority / Manufacturer	Total nos of test conducted by		Frequency as per Relevent IS Codes and MoRTH Quality Plans	Reference	Remarks
						Const Sub-Dn	QA Sub-dn		Const Sub-Dn	QA Sub-dn			
Concrete works													
1	40 mm and down size Coarse aggregate	Cum	58.57	Gradation	1 Test						One Test per 100 Cum/ or Change in source	IS 383-2016, IS2386(part1 - 8)	Any change in source / visual observations, number of tests may be increased and subsequently on monthly basis
				Flakiness and Elongation index	1 Test						Once at beginning for each source	IS 383-2016, IS2386(part1)-1963 &2430-1969	
				Impact value	1 Test							IS 383-2016, IS2386(part IV)-1963 &2430-1969	
				Water Absorbtion	1 Test							IS 383-2016, IS2386(part III)-1963 &2430-1969	
2	20 mm and 12.5 mm down size Coarse aggregate	Cum	119.03	Gradation	1 Test						One Test per 100 Cum/ or Change in source	IS 383-2016, IS2386(part1)-1963 & sampling 2430-1969 ,4926-2003	Any change in source / visual observations, number of tests may be increased and subsequently on monthly basis
				Flakiness and Elongation index	1 Test						Once at beginning for each source	IS 383-2016, IS2386(part1)-1963 &2430-1969	
				Impact value	1 Test							IS 383-2016, IS2386(part IV)-1963 &2430-1969	
				Water Absorbtion	1 Test							IS 383-2016, IS2386(part III)-1963 &2430-1969	

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						Const Sub-Dn	QA Sub-dn		Const Sub-Dn	QA Sub-dn			
3	Fine aggregate	Cum	88.80	Seive analysis	1 Test						One Test per 100 cum or Change in source	IS 383-2016, IS2386(part 2)-1963 &2430-1969	Any change in source / visual observations, number of tests may be increased
4	Cement	Bags	343.00	Normal Consistency	1 Test						1 test for every 5000 bags/1 test for each consignment/ as decided by the engineer incharge	IS 269, IS 455, IS 1489, IS 8112-1989 IS 12269-1987	Any change in cement grade/brand test to be carried out
				Initial setting time	1 Test								
				Final setting time	1 Test								
				Compressive strength	1 Test								
5	Steel	Tonne	12.74	Tensile test a) Dia of bar b) weight/mtr c) Yeild stress d) Tensile test	1 Test						One Test for Each Consignment (all dia of rods)	IS 1786-2008 & IS1608-2005	Certificate from authorised testing labs followed by Manufactures certificate.
				Bend and re- bend test	1 Test							IS 1786-2008 & IS1599-1985	
				Chemical Analysis	1 Test							IS 1786-2008 & IS 228 (part1-24)	

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						Const Sub-Dn	QA Sub-dn		Const Sub-Dn	QA Sub-dn			
6	Concrete M15	Cum	12.60	Mix Design	1 Set							IS 456-2000,IS4926-2003,IS 516-1959 & 1199-1959 IS 8112-1989 for 43 grade IS 12269-1987 for 53 grade	Mix design performed at the beginning of work by contractor & get approval from competent authority
				Slump Test	2 Tests per Day						2 Tests per Day / as required at Site		
				7 days Compressive Strength	2 Tests						1-5cum - 1 set, 5-15 cum- 2 set, 15-30cum-3 set, 30-50cum - 4 set , aabove 50 cum-additio 1 set and above 100 cum - 1 set for every 100 cum . For RMC concrete 1 set for every 50cum or part/ As decided by Engineer Incharge		
				28 days Compressive Strength	2 Tests								

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						Const Sub-Dn	QA Sub-dn		Const Sub-Dn	QA Sub-dn			
7	Concrete M20	Cum	205.03	Mix Design	1 Set							IS 456-2000,IS4926-2003,IS 516-1959 & 1199-1959 IS 8112-1989 for 43 grade IS 12269-1987 for 53 grade	Mix design performed at the beginning of work by contractor & get approval from competent authority
				Slump Test	2 Tests per Day						2 Tests per Day / as required at Site		
				7 days Compressive Strength	8 Tests						1-5cum - 1 set, 5-15 cum- 2 set, 15-30cum- 3 set, 30-50cum - 4 set , aabove 50 cum- additio 1 set and above 100 cum - 1 set for every 100 cum . For RMC concrete 1 set for every 50cum or part/ As decided by Engineer Incharge		
				28 days Compressive Strength	8 Tests								

Note:

1 For Water Suppy, Sanitory, Electrical and other Items nessasary certificate indicating the quality as per the prescribed IS shall be obtained by the Authorised/Manufactures shall be obtained during the execution of the Work.

Assistant Engineer
(Ward No .11)

Assistant Executive Engineer
(Kodigehalli Sub Division)

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Executive Engineer
(Byatarayanapura Division)